(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



1 (11) | [11] | [11] | [11] | [11] | [11] | [11] | [11] | [11] | [11] | [11] | [11] | [11] | [11] | [11] | [11]

(43) International Publication Date 18 December 2003 (18.12.2003)

PCT

(10) International Publication Number WO 03/105180 A1

(51) International Patent Classification⁷: H01J 29/86, 29/76

- (21) International Application Number: PCT/IB03/02238
- (22) International Filing Date: 22 May 2003 (22.05.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

- (30) Priority Data: 02077227.3 7 June 2002 (07.06.2002) EP 02080116.3 5 December 2002 (05.12.2002) EP
- (71) Applicant (for all designated States except US): KONIN-KLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): SKORIC, Boris [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (74) Agent: DEGUELLE, Wilhelmus, H., G.; internationaal Octrooibureau B.V., Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

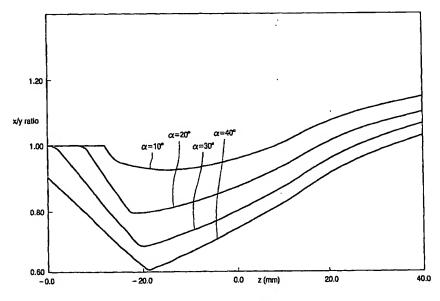
Published:

- with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

. .

(54) Title: PICTURE DISPLAY DEVICE WITH REDUCED DEFLECTION POWER



(57) Abstract: A picture display device comprises a cathode ray tube (1) with an elongated display screen (8) and a deflection system (9) for deflecting electron beams. The display screen is substantially rectangular with a long and a short axis. The line scanning direction is parallel to the long axis of the display screen. The cathode ray tube comprises aneck portion and between the screen and the neck portion a cone portion (3, 3a). This cone portion has an aspect ratio (ratio of x and y dimension, x/y ratio), which is near the neck below unity and changes to above unity closer to the screen as a function of z.

03/105180 A1